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$\therefore\ DC=2xy(x^2-y^2)/2x^2=[(x^2-y^2)/x]y.$

And $AD^2=(x^2-y^2)^2+y^2[(x^2-y^2)^2/x]y^2.$

$AD^2=(x^2+y^2)(x^2-y^2)^2/x^2.\quad AD=[(x^2-y^2)/x]\sqrt{(x^2+y^2)}.$

Put $x=4$, $y=3$, and $AD=8\frac{3}{4}$. Increasing each dimension of triangle in quadruple ratio $AD=35$, $AC=28$, $BC=96$, $AB=100$, $DC=21$.

Also solved by *CHAS. C. CROSS*, *JOSIAH H. DRUMMOND*, and *COOPEB D. SCHMITT*.

PROBLEMS FOR SOLUTION.

ARITHMETIC.

128. Proposed by M. A. GRUBER, A. M., War Department, Washington, D. C.

At what time is the figure 7, on the face of a clock, midway between the hour and minute hands?

129. Proposed by J. W. DAPPERT, Civil Engineer and Surveyor, Taylorville, Ill.

"A Minion, agile, in stature small
Panting came to great Diana's Hall,
Bearing a marble globe upon his shoulders,
Measuring one inch in its diameters.
He rolled it to the northeast corner of the Hall,
Left touching the northern and eastern walls;
Then following came three demi-gods in white,
Each bearing a globe of lustrous metal bright;
One of iron, copper one, and one of silver;
And they placed them in the order given,
Touching each the other, and at the same time,
Touching each the side-walls, in a direct line,
The iron touching the marble, and its other side
Resting against the silver, in its glory and pride,—
All resting upon the oaken floor; and then
With heavy tread, and puff, and roar, Atlas came
Bearing a huge golden sphere, that filled the Hall,
Touching the four sides, floor and ceiling, and all
Radiant with beauty, resting against the silvery ball,
Making the globe's diameters in the rooms diagonal."

"Tell me, all ye who mathematics know:
What size the copper sphere, and oh!
How large the iron globe? How great
The golden globe, immaculate?
The silver sphere, how great? What size?
And if presented as a prize,
What value do you hold
Would be the sphere of gold?"

Found in an old volume entitled "Treatise on Surveying, by Abel Flint"—published in 1833, owned formerly by John E. Stockton, later by S. W. Baker, and now in my possession. Written in red ink upon a blank page.

⁂ Solutions of these problems should be sent to B. F. Finkel not later than May 10.